

Sterilization grafted
(500W)

XPS data are generally reported to one significant digit beyond the decimal point. For the early data, results were reported to one significant digit. The later data were reported to two significant digits so that 0.24 and 0.26 are not thought to differ by a factor of 1.5, i.e. 0.2 vs. 0.3.

*O/C numbers higher than the control are indicative of a PEG group on the surface (PEG having more oxygen than PU); detection of coating on surface.

^S is indicative of heparin on the surface.

IN THE CLAIMS:

Please amend claims 1 and 16 as follows:

Claim 1. (Amended) A method of sterilizing a material comprising:

applying a bioactive coating comprising polymerizable chemical to said material;
polymerizing said bioactive coating on said material; and
sterilizing said material and said bioactive coating with a sterilization process comprising generating a hydrogen peroxide gas plasma.

Claim 16. (Amended) A method of sterilizing and polymerizing a bioactive coating on a material comprising:

applying a bioactive coating comprising non-polymerized but polymerizable chemical to said material; and
simultaneously polymerizing said bioactive coating and sterilizing said material and bioactive coating with a sterilization process comprising generating a hydrogen peroxide gas plasma.

Please add the following new claims:

Claim 19. (New) The method of claim 1, wherein the sterilization process does not severely impact the activity of the bioactive coating.

Claim 20. (New) The method of claim 16, wherein the sterilization process does not severely impact the activity of the bioactive coating.

REMARKS